ELSEVIER

Aquaculture 122 (1994) 373–375

Aquaculture

Contents of Aquaculture, Volume 122

VOL. 122 NO. 1 **15 APRIL 1994**

Diseases, Parasites and Predators

Detection of *Aeromonas salmonicida* from water using a filtration method
L.A. Ford (Kearneysville, WV, USA) 1

An epizootic of necrotizing hepatopancreatitis in cultured penaeid shrimp (Crustacea: Decapoda) in northwestern Peru
D.V. Lightner and R.M. Redman (Tucson, AZ, USA) 9

Husbandry and Management

Production traits of the mussel *Mytilus galloprovincialis* cultured in Galicia (NW of Spain): relative effects of source of seed and growing environment
J. Fuentes (Pontevedra, Spain), I. Reyero, C. Zapata and G. Alvarez (Santiago de Compostela, Spain) 19

Pond production characteristics of freshwater prawns *Macrobrachium rosenbergii* as influenced by the stocking of size-graded populations of juveniles
W.H. Daniels and L.R. D'Abramo (Mississippi State, MS, USA) 33

Polyculture of Nile tilapia (*Oreochromis niloticus*) and Australian red claw crayfish (*Cherax quadricarinatus*) in earthen ponds
R.E. Brummett (Zomba, Malawi) and N.C. Alon (Bethesda, MD, USA) 47

Settlement of the mussel *Mytilus galloprovincialis* on collectors suspended from rafts in the Ría de Arousa (NW of Spain): annual pattern and spatial variability
J. Fuentes and J. Molares (Pontevedra, Spain) 55

First studies on spawning, embryonic and larval development of *Dentex gibbosus* (Rafinesque, 1810) (Osteichthyes, Sparidae) under controlled conditions
H. Fernandez-Palacios, D. Montero, J. Socorro (Telde, Las Palmas, Canary Islands, Spain), M.S. Izquierdo and J.M. Vergara (Las Palmas de Gran Canaria, Canary Islands, Spain) 63

Growth and survival of redclaw crayfish hatchlings (*Cherax quadricarinatus* von Martens) in relation to temperature, with comments on the relative suitability of *Cherax quadricarinatus* and *Cherax destructor* for culture in Queensland
C.R. King (Brisbane, Qld., Australia) 75

Nutrition

Enhancing the resistance to physical stress in larvae of *Mugil cephalus* by the feeding of enriched *Artemia* nauplii
H. Ako (Honolulu, HI, USA), C.S. Tamaru (Kailua, HI, USA), P. Bass and C.-S. Lee (Honolulu, HI, USA) 81

0044-8486/94/$07.00 © 1994 Elsevier Science B.V. All rights reserved
SSDI 0044-8486

VOL. 122 NOS. 2/3 **1 MAY 1994**

Diseases, Parasites and Predators

Density-dependent effect on oral vaccination of channel catfish against *Edwardsiella ictaluri*
J.A. Plumb, S. Vinitnantharat, V. Abe and R.P. Phelps (Auburn, AL, USA) 91

The disposition of ^{14}C-florfenicol in Atlantic salmon (*Salmo salar*)
T.E. Horsberg, B. Martinsen (Oslo, Norway) and K.J. Varma (Union, NJ, USA) 97

Economics and Marketing

Financial characteristics of a red drum aquaculture firm with winter nursery production
G. McBryde (Kingsville, TX, USA) 107

Genetics and Breeding

Androgenesis in common carp (*Cyprinus carpio* L.) using UV irradiation in a synthetic ovarian fluid and heat shocks
A.B.J. Bongers, E.P.C. in 't Veld, K. Abo-Hashema, I.M. Bremmer, E.H. Eding, J. Komen and C.J.J. Richter (Wageningen, Netherlands) 119

Husbandry and Management

The effect of salinity on growth and survival of *Penaeus vannamei*, with observations on the interaction of IHHN virus and salinity
W.A. Bray, A.L. Lawrence and J.R. Leung-Trujillo (Corpus Christi, TX, USA) 133

A method for tagging the Malaysian prawn *Macrobrachium rosenbergii*
A.E. Schmalbach, L.S. Quackenbush and R. Melinek (Miami, FL, USA) 147

Competency to settle in oyster larvae, *Crassostrea virginica*: wild versus hatchery-reared larvae
P. Baker (Gloucester Point, VA, USA) 161

Resuspended hypnozygotes of *Alexandrium fundyense* associated with winter occurrence of PSP in inshore Newfoundland waters
P. Schwinghamer, M. Hawryluk, C. Powell and C.H. MacKenzie (St. John's, Nfld., Canada) 171

Growth of wild and cultured black-lip pearl oysters, *Pinctada margaritifera* (L.) (Pteriidae; Bivalvia), in the Cook Islands
N.A. Sims (Rarotonga, Cook Islands) 181

Nutrition

Highly unsaturated fatty acid requirements of *Penaeus monodon* postlarvae: an experimental approach based on *Artemia* enrichment
J.F. Rees (Chonburi, Thailand), K. Curé (Ghent, Belgium), S. Piyatiratitivorakul (Chonburi, Thailand), P. Sorgeloos (Ghent, Belgium) and P. Menasveta (Chonburi, Thailand) 193

The effect of various processing methods on the physical and biochemical properties of shrimp head meals and their utilization by juvenile *Penaeus monodon* Fab.
C.J. Fox, P. Blow, J.H. Brown (Stirling, UK) and I. Watson (Chatham, Kent, UK) 209

Physiology and Endocrinology

Gametogenic cycle of the Japanese abalone (ezoawabi), *Haliotis discus hannai*, during conditioning with effective accumulative temperature
K.O. Hahn (Bodega Bay, CA, USA) 227

Conditions for effective androgen sex reversal in *Oreochromis niloticus* (L.)
E.M. Vera Cruz (Nueva Ecija, Philippines) and G.C. Mair (Swansea, UK) 237

Temperature and salinity tolerance of the soft-shell and hard-shell male snow crab, *Chionoecetes opilio*
D. Hardy (Rimouski, Que., Canada), J. Munro and J.-D. Dutil (Mont-Joli, Que., Canada) 249

Announcement from the Publisher 267

VOL. 122 NO. 4 **15 MAY 1994**

Diseases, Parasites and Predators
Prey selection and daily food consumption by a cleaner fish, *Ctenolabrus rupestris* (L.), on farmed Atlantic salmon, *Salmo salar* L.
J. Treasurer (Lochailort, Inverness-shire, UK) 269
Parasites of pike perch *Stizostedion lucioperca* (Linnaeus 1758) fry reared in two different types of natural food ponds in southern Finland
R. Rahkonen (Helsinki, Finland) 279

Genetics and Breeding
Production and quality of eggs obtained from wolffish (*Anarhichas lupus* L.) reared in captivity
D.A. Pavlov (Moscow, Russian Federation) and E. Moksness (His, Norway) 295

Husbandry and Management
Effect of frequency of rock phosphate application in carp culture
B.B. Jana and S.N. Sahu (Kalyani, India) 313
Effects of temperature and food density on egg development, larval survival and growth of perch (*Perca fluviatilis* L.)
N. Wang and R. Eckmann (Konstanz, Germany) 323

Nutrition
Effects of coating and encapsulation of crystalline amino acids on leaching in larval feeds
J. López-Alvarado (Kagoshima, Japan), C.J. Langdon (Newport, OR, USA), S.-I. Teshima and A. Kanazawa (Kagoshima, Japan) 335
Vitamin C requirement of grass shrimp, *Penaeus monodon*, as determined with *L*-ascorbyl-2-monophosphate
S.-Y. Shiau and T.-S. Hsu (Keelung, Taiwan, ROC) 347

Physiology and Endocrinology
Evaluation of a sustained-release polymer-encapsulated form of recombinant porcine somatotropin upon long-term growth performance of coho salmon, *Oncorhynchus kisutch*
E. McLean, E.M. Donaldson, I. Mayer (West Vancouver, BC, Canada), E. Teskeredzic, Z. Teskeredzic (Zagreb, Croatia), C. Pitt and L.M. Souza (Thousand Oaks, CA, USA) 359

Author Index 369

Contents of *Aquaculture*, Volume 122 373